

## Laser Blade XL

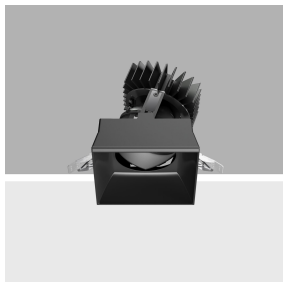
Design iGuzzini

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### Product configuration: QK64.04

QK64.04: Minimal adjustable - Medium beam - LED - Black



### Product code

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### Technical description

Recessed luminaire with adjustable optic for an LED lamp. Passive heat dissipation system. The adjustable body can turn in a set-back position in relation to the flush-mounted recessed housing to ensure precise lighting that is extremely comfortable and reduces direct glare significantly. Internal rotation of 358° and a tilting movement of 35° with mechanical locking systems for both movements. Version for flush with ceiling installation (frameless) - to install the recessed luminaire in the false ceiling a specific adapter is required that is available with a separate item code. A fixed structure in die-cast aluminium. The adjustable unit includes a radiant element in aluminium, with a steel coupling for the optic unit and a thermoplastic rotation locknut. Metallised thermoplastic reflector with a high definition optic. Thermoplastic anti-glare external screen. Glass cover for LED lamp. Supplied with a dimmable DALI ballast unit connected to the luminaire.

### Installation

The luminaire is recessed in the specific adapter (QK71) by means of a steel wire spring, previously installed on the ceiling that can be between 12.5 and 25 mm thick. Installation possible in a horizontal position.

**Colour**  
Black (04)

**Weight (Kg)**  
1.05

**Mounting**  
ceiling recessed

### Wiring

Quick-coupling connections on the ballast unit. Digital electronic cabling that allows dimming to be performed with DALI protocol or a pushbutton switch (read the indications on the instruction sheet carefully).

### Notes

Technical and decorative accessories available - with the option of installing two accessories simultaneously. The product has a white finish (01) that maintains its UGR < 19 performance unaltered even when luminance values vary slightly.

Complies with EN60598-1 and pertinent regulations



### Technical data

Im system:	1972	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	31.9	Lamp code:	LED
Im source:	3400	Number of lamps for optical assembly:	1
W source:	28	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	61.8	Number of optical assemblies:	1
Im in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	18 A / 250 µs
Light Output Ratio (L.O.R.) [%]:	58	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires
Beam angle [°]:	22°	Minimum dimming %:	1
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3000	Control:	DALI-2
MacAdam Step:	2		

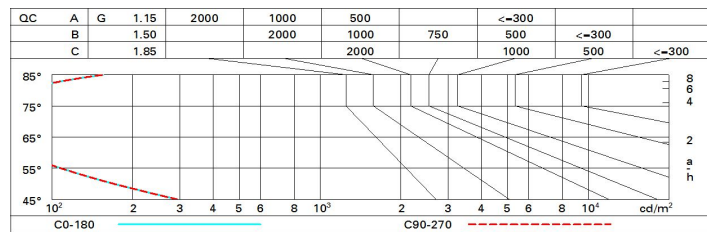
### Polar

<p>lmax=12735 cd</p> <p>90° 180° 90°</p> <p>12500</p> <p>0°</p> <p>α=22°</p>	<b>CIE</b> nL 0.58 100-100-100-100-58 UGR <10<10 <b>DIN</b> A.61 <b>UTE</b> 0.58A+0.00T F*1=998 F*1+F*2=1000 F*1+F*2+F*3=1000 <b>CIBSE</b> LG3 L<1500 cd/m² at 65° UGR<10   L<1500 cd/mq @65°				<b>Lux</b>			
					h	d	Em	Emax
					2	0.8	2516	3184
					4	1.6	629	796
					6	2.3	280	354
					8	3.1	157	199

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	52	50	48	46	49	48	47	45	78
1.0	55	52	51	49	52	50	50	48	83
1.5	57	56	54	53	55	54	53	51	89
2.0	59	58	57	56	57	56	55	54	93
2.5	60	59	58	58	58	58	57	56	96
3.0	61	60	60	59	59	59	58	57	98
4.0	62	61	61	60	60	60	59	58	99
5.0	62	62	61	61	61	60	60	58	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3400 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	-10.3	-8.1	-9.9	-7.8	-7.5	-10.3	-8.1	-9.9	-7.8	-7.5
	3H	-10.4	-8.8	-10.0	-8.5	-8.2	-10.4	-8.8	-10.0	-8.5	-8.1
	4H	-10.4	-9.2	-10.0	-8.9	-8.5	-10.4	-9.2	-10.0	-8.8	-8.5
	6H	-10.4	-9.5	-10.0	-9.2	-8.8	-10.4	-9.6	-10.0	-9.2	-8.9
	8H	-10.3	-9.4	-9.9	-9.1	-8.7	-10.5	-9.6	-10.1	-9.2	-8.9
	12H	-10.2	-9.3	-9.8	-8.9	-8.5	-10.5	-9.6	-10.1	-9.3	-8.9
4H	2H	-10.4	-9.2	-10.0	-8.8	-8.5	-10.4	-9.2	-10.0	-8.9	-8.5
	3H	-10.5	-9.6	-10.1	-9.2	-8.9	-10.5	-9.6	-10.1	-9.2	-8.8
	4H	-10.6	-9.6	-10.2	-9.2	-8.8	-10.6	-9.6	-10.2	-9.2	-8.8
	6H	-10.9	-9.1	-10.4	-8.7	-8.2	-11.0	-9.2	-10.5	-8.8	-8.3
	8H	-10.8	-8.9	-10.3	-8.4	-7.9	-11.1	-9.2	-10.6	-8.7	-8.2
	12H	-10.6	-8.6	-10.1	-8.1	-7.6	-11.2	-9.2	-10.7	-8.7	-8.2
8H	4H	-11.1	-9.2	-10.6	-8.7	-8.2	-10.8	-8.9	-10.3	-8.4	-7.9
	6H	-11.0	-9.2	-10.5	-8.7	-8.2	-10.8	-9.0	-10.3	-8.5	-8.0
	8H	-10.7	-9.1	-10.1	-8.6	-8.1	-10.7	-9.1	-10.1	-8.6	-8.1
	12H	-10.0	-9.0	-9.5	-8.5	-8.0	-10.4	-9.4	-9.9	-8.9	-8.4
12H	4H	-11.2	-9.2	-10.7	-8.7	-8.2	-10.6	-8.6	-10.1	-8.1	-7.6
	6H	-10.9	-9.4	-10.4	-8.9	-8.3	-10.3	-8.8	-9.8	-8.3	-7.8
	8H	-10.4	-9.4	-9.9	-8.9	-8.4	-10.0	-9.0	-9.5	-8.5	-8.0
Variations with the observer position at spacing:											
S =		3.7 / -3.0					3.7 / -3.0				
		6.1 / -3.7					6.1 / -3.7				
		8.0 / -4.1					8.0 / -4.1				